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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/511,325	10/15/2004	Tsutomu Yoshitake	Q84259	9221
23373 7.	590 11/01/2006		EXAMINER	
SUGHRUE MION, PLLC			LEWIS, BEN	
2100 PENNSYLVANIA AVENUE, N.W. SUITE 800			ART UNIT -	PAPER NUMBER
	N, DC 20037		1745	
			DATE MAILED: 11/01/2006	5

Please find below and/or attached an Office communication concerning this application or proceeding.

<u></u>	Application No.	Applicant(s)
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Office Action Summary	10/511,325	YOSHITAKE ET AL.
Omee Action Summary	Examiner	Art Unit
The MAIL INC DATE of the	Ben Lewis	1745
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on This action is FINAL . 2b)⊠ This action for alloware closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro	
Disposition of Claims		
4) Claim(s) 19-32 is/are pending in the applicatio 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) 19-32 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or Application Papers 9) The specification is objected to by the Examine 10) The drawing(s) filed on 10/15/04 is/are: a) a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine 11.	wn from consideration. or election requirement. er. accepted or b) objected to by the drawing(s) be held in abeyance. See tion is required if the drawing(s) is ob-	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the prio application from the International Burea * See the attached detailed Office action for a list	es have been received. Es have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date See Continuation Sheet	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate

Continuation of Attachment(s) 3). Information Disclosure Statement(s) (PTO/SB/08), Paper No(s)/Mail Date :10/15/04, 4/18/06, 8/10/06, 12/5/05.

DETAILED ACTION

Pendency of Claims

Original claims 1-20 were filed in this national stage application. However, applicant cancelled claims 1-18 in the preliminary amendment filed on 10/15/2004 listing claims 1-18 as cancelled and claims 19-20 as new. For the purposes of prosecution, claims 19 and 20 are treated as amended claims.

Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claims 19-27 and 29-32 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The phrase "ordinary temperature" is not defined by its claim, the specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably appraised of the scope of the invention.

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Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 19 and 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Uchida et al. (U.S. Patent No. 6,057,051) in view of Johnson (U.S. Patent No. 6,808,833 B2).

With respect to claims 19 and 28, Uchida et al. disclose a miniaturized fuel cell assembly (title).

With respect to a heat-producing section and a heat-dissipating section arranged adjacent to the heat producing section, Uchida et al. teach that the hydrogen storage unit 205 "heat-dissipating section" is heated by the air discharged from the fuel cell body 204 "heat producing section" (Col 8 lines 24-30).

With respect to a fuel supply section Uchida et al. teach that he cell device 2 includes a cell device casing 3 constituting a shell of the cell device 2. Mounted within the cell device casing 3 are a fuel cell body 4, a hydrogen storage unit 5 storing hydrogen to be used in the fuel cell body 4, hydrogen supply means 6a for feeding the hydrogen from the hydrogen storage unit 5 to the fuel cell body (Col 5 lines 54-67).

With respect to a fuel supply section being arranged in the heat-dissipating section Uchinda et al. teach that the hydrogen supply means 6 comprises a connecting portion 6a provided at one end thereof and detachably connected to the hydrogen storage unit 5 to receive the hydrogen in the hydrogen storage unit 5 without leakage, (Col 6 lines 10-35) (See FIGS. 7, 8 and 9).

With respect to a flow-rate-control section, Uchida et al. teach that the fuel cell device comprises a control unit for controlling a flow of the hydrogen from the hydrogen storage unit to control an operation of a fuel cell in the fuel cell body (Col 3 lines 4-15).

Uchida et al. does not specifically teach the fuel being a liquid. However,

Johnson discloses a fuel supply for a fuel cell (title) wherein the fuel container 24 is
configured to hold a liquid fuel supply, such as a borohydride or methanol solution, and
is typically constructed from a material inert to the fuel solution. Fuel supply 20 also
includes a fuel outlet 28 configured to pass fuel out of fuel storage area 26 (Col 2 lines
45-60). Therefore it would have been obvious to one of ordinary skill in the art at the
time the invention was made to incorporate the liquid fuel system of Johnson into the
fuel cell system of Uchida et al because Johnson teach that these fuels "liquid" are
relatively safe and easy to use and to store at room temperature, they may be used in
disposable or rechargeable fuel supplies (Col 1 lines 55-64).

Conclusion

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ben Lewis whose telephone number is 571-272-6481. The examiner can normally be reached on 8:30am - 5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's Traniner, Susy Tsang-Foster can be reached on 571-272-1293. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Ben Lewis

Patent Examiner Art Unit 1745

SUSYTSANG-FOSTER PRIMARY EXAMINER

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